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ning of each regular issue of the PCT Gazette.

(54) Title: DEUTERATED GLUCOSE OR FAT TOLERANCE TESTS FOR HIGH-THROUGHPUT MEASUREMENT OF THE
METABOLISM OF SUGARS OR FATTY ACIDS IN THE BODY

(57) Abstract: Provided herein are methods for determining the metabolism of one or more sugars and/or fatty acids, and applica-
tions thereof. Such applications include determining the rate of glycogen synthesis and glycolysis, which are believed to be early
markers for predicting elevated risk of diabetes and cardiovascular disease. Other applications include methods for screening drugs
that effect sugar and/or fatty acid metabolism. The methods are useful for at least partially characterizing drugs for desirable or un-
desirable (toxic) characteristics. Drugs that are at least partially characterized using the methods of the invention can then be further
developed in preclinical testing and clinical trials. Such drugs may be found to be useful in treating obesity, diabetes, cardiovascular
disease, and other disorders of metabolism.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 51/00

US CL : 424/1.81

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/1.73, 1.81, 9.1, 9.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
registry, biosis, medline, uspatfull, embase, caplus

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	US 2004/0115131 A1 (HELLERSTEIN) 17 June 2004 (17.06.2004), see entire document, especially, abstract; and page 2, paragraphs [0015] and [0018].	1-66

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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